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Pat. App. Not known - US phase of PCT/EP2003/006369

CLAIM AMENDMENTS

- (original) Connection device between members of a 1 machine comprising at least one first and one second coupling 2 suitable for being connected together to orientate said members of 3 said machine in work position, characterised in that said first coupling comprises at least one first and one second toothed elements mutually mobile between an initial reference configuration and a work configuration corresponding to a predetermined orientation of said members of said machine, said second coupling comprising at least two toothed elements fixed together with said initial configuration and mutual displacement means of said second coupling 10 with respect to said first coupling suitable for taking said second 11 coupling into a connection position with said first coupling once 12 said work condition of said first coupling has been reached in 13 correspondence with a small relative displacement between said 14 first and second toothed elements of said first coupling equal to 15 the difference between the sum of the pitch of two or more teeth of 16 said first toothed element of said first coupling and the sum of 17 the pitch of two or more teeth of said second toothed element of 18 said first coupling. 19
 - 2. (original) Device according the previous claim, characterised in that said displacement means are suitable for mutually displacing said second coupling with respect to said first

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- coupling by an amount proportional to the relative displacement of the two elements of the first coupling.
- 3. (currently amended) Device according to one or more
 of the previous claims claim 1, characterised in that said mutually
 mobile toothed elements of said first coupling have an annular
 configuration and are concentric and, correspondingly, said mutually
 fixed toothed elements of said second coupling have an annular
 configuration and are concentric.
- 4. (currently amended) Device according to one or more
 of the previous claims claim 1, characterised in that said mutually
 mobile toothed elements of said first coupling have different
 numbers of teeth.
- 5. (currently amended) Device according to one or more
 of the previous claims claim 1, characterised in that said mutually
 fixed toothed elements of said second coupling have different
 numbers of teeth.
- 6. (currently amended) Device according to one or more
 of the previous claims claim 1, characterised in that inner mobile
 toothed elements and inner fixed toothed elements have less teeth
 than corresponding outer mobile toothed elements and outer fixed
 toothed elements.

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- 7. (currently amended) Device according to one or more
 of the previous claims claim 1, characterised in that said inner
 mobile toothed elements and said inner fixed toothed elements have
 the same number of teeth and, in the same way, said outer mobile
 toothed elements and said outer fixed toothed elements have the
 same number of teeth.
 - 8. (currently amended) Device according to one or more of the previous claims claim 1, characterised in that the difference between the number of teeth of said outer mobile toothed elements and of said inner mobile toothed elements is greater than one and, moreover, the difference between the number of teeth of said outer fixed toothed elements and of said inner fixed toothed elements is greater than one.
 - 9. (currently amended) Device according to one or more of the previous claims claim 1, characterised in that said machine is a chip machine.
 - of the previous claims claim 1, characterised in that said device connects a piece-carrying table and/or a treatment head and/or a piece-carrying chuck and/or a divider to a structure of said machine.

11. (original) Machine tool comprising a connection 1 device between its members comprising at least one first and one 2 second coupling suitable for being connected together to orientate 3 said members of said machine in work position, characterised in that said first coupling comprises at least one first and one second toothed elements mutually mobile between an initial reference configuration and a work configuration corresponding to a predetermined orientation of said members of said machine tool, said second coupling comprising at least two toothed elements fixed together with said initial configuration and displacement means of 10 said second coupling with respect to said first coupling suitable 11 12 for taking said second coupling into a connection position with said first coupling once said work condition of said first coupling 13 has been reached in correspondence with a relative displacement 14 15 between said first and second toothed elements of said first coupling equal to the difference between the sum of the pitch of 16 two or more teeth of said first element of said first coupling and 17 the sum of the pitch of two or more teeth of said second toothed 18 element of said first coupling. 19

12. (canceled)